

WHAT IS CLAIMED IS:

- 1                   1.       An expression vector, said vector comprising an expression cassette  
2       comprising from 5' to 3' the following elements: a CMV promoter sequence, a CMV  
3       enhancer sequence, a CMV intron A sequence from the CMV major immediate early gene, a  
4       heterologous nucleic acid sequence, and a polyadenylation site, wherein the promoter is  
5       operably linked to the heterologous nucleic acid sequence.
- 1                   2.       The expression vector of claim 1, wherein the CMV intron A sequence  
2       has a deletion from about base 1513 to about base 1736.
- 1                   3.       The expression vector of claim 1, wherein the heterologous nucleic  
2       acid encodes a cancer antigen.
- 1                   4.       The expression vector of claim 1, wherein the expression cassette  
2       comprises nucleotides 54-3675 of the sequence set forth in SEQ ID NO:3.
- 1                   5.       An expression vector of claim 1, wherein the expression cassette  
2       comprises nucleotides 1-1653 of the sequence set forth in SEQ ID NO:3.
- 1                   6.       The expression vector of claim 1, wherein the expression cassette  
2       comprises the sequence set forth in SEQ ID NO:3.
- 1                   7.       The expression vector of claim 3, wherein the cancer antigen is  
2       encoded by the nucleotide sequence set forth in SEQ ID NO:6.
- 1                   8.       A host cell comprising the expression vector of claim 1.
- 1                   9.       A host cell comprising the expression vector of claim 4.
- 1                   10.      A host cell comprising the expression vector of claim 5.

- 1                    11.     A host cell comprising the expression vector of claim 6.
- 1                    12.     The host cell of claim 8, wherein the host cell is selected from the  
2 group consisting of *E. coli* and mammalian cells.
- 1                    13.     The host cell of claim 9, wherein the host cell is selected from the  
2 group consisting of *E. coli* and mammalian cells.
- 1                    14.     The host cell of claim 11, wherein the host cell is selected from the  
2 group consisting of *E. coli* and mammalian cells.
- 1                    15.     A composition comprising an expression vector as set forth in claim 1.
- 1                    16.     A method for expressing a heterologous nucleic acid sequence, the  
2 method comprising culturing a host cell comprising an expression vector, said vector  
3 comprising an expression cassette comprising from 5' to 3' the following elements: a CMV  
4 promoter sequence, a CMV enhancer sequence, a CMV intron A sequence from the CMV  
5 major immediate early gene, a heterologous nucleic acid sequence, and a polyadenylation  
6 site, wherein the promoter is operably linked to the heterologous nucleic acid sequence.
- 1                    17.     The method of claim 16, wherein the CMV intron A sequence has a  
2 deletion from about base 1513 to about base 1736.
- 1                    18.     The method of claim 16, wherein the heterologous nucleic acid  
2 encodes a cancer antigen.
- 1                    19.     The method of claim 16, wherein the expression cassette comprises  
2 nucleotides 54-3675 of the sequence set forth in SEQ ID NO:3.
- 1                    20.     The method of claim 16, wherein the expression cassette comprises  
2 nucleotides 1-1653 of the sequence set forth in SEQ ID NO:3.

1                   21.     The method of claim 16, wherein the expression cassette comprises the  
2 sequence set forth in SEQ ID NO:3.

1                   22.     The method of claim 16, wherein the host cell is selected from the  
2 group consisting of *E. coli* and mammalian cells.

1                   23.     The method of claim 18, wherein the cancer antigen is encoded by the  
2 nucleotide sequence set forth in SEQ ID NO:6.

1                   24.     A method for eliciting an immune response, the method comprising the  
2 steps of administering an immunogenically effective amount of the immunogenic  
3 composition of claim 12 to a subject, wherein the immune response is directed against a  
4 polypeptide encoded by the heterologous nucleic acid sequence.

1                   25.     The method of claim 24, wherein the immunogenic composition is  
2 administered multiple times.